

KONINKLIJKE LUCHTMACHT
No Form 1000
test cal. date: 7-4-72 5-4-72

INSULATION TESTS

Test to Earth—Connect LINE terminal to circuit and EARTH terminal to a good earth.

Test between Wires—Connect LINE terminal to one, EARTH terminal to the other. Set change-over switch to MEGGER (disregard ratio switch). Turn handle, read deflection.

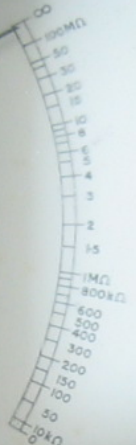
BRIDGE TESTS

Connect unknown resistance to LINE and EARTH terminals. Set change-over switch to BRIDGE. Turn handle while adjusting resistance dials and ratio switch until index stands at infinity (∞). Read value shown on dial and multiply or divide by factor shown on ratio switch. Result is resistance in ohms.

INFINITY ADJUSTMENT. Set switch to MEGGER. Disconnect leads from terminals. Rotate generator at full speed and turn INFINITY ADJUSTER until pointer is exactly at infinity (∞).

PRECAUTION. When testing circuits with capacity or inductance, handle MUST be turned above slipping speed.

500 V. NO. 1030004
TRADE "MEGGER" MARK



VARLEY TESTS

CONNECT EARTH TERMINAL TO FAULTY LINE.
LINE TERMINAL TO LOOPED LINE. AND
VARLEY EARTH TERMINAL TO A GOOD EARTH

TEST 1. SET SWITCH TO "BRIDGE" AND
MEASURE RESISTANCE OF LOOP.

L = DIALS READING MULTIPLIED OR DIVIDED
BY RATIO SWITCH FACTOR

TEST 2. SET SWITCH TO "VARLEY" AND
BALANCE AGAIN R = ACTUAL DIALS READING

RATIO SWITCH FACTOR IN VARLEY TEST	DISTANCE OF FAULT FROM EARTH TERMINAL IN OHMS
1	$\frac{L - R}{2}$
÷ 10	$\frac{10L - R}{11}$
÷ 100	$\frac{100L - R}{101}$





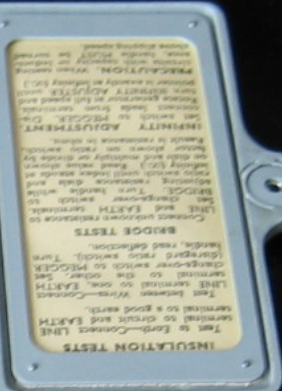
INSTRUCTIONS FOR USE
This is a portable cable tester
used for testing cables of
any length and for finding
faults in them. It is used
by connecting the leads to the
cable and operating the
switches and dial. The
dial shows the distance of
the fault in miles or feet.
The switches are used for
selecting the test and for
balancing the cable.

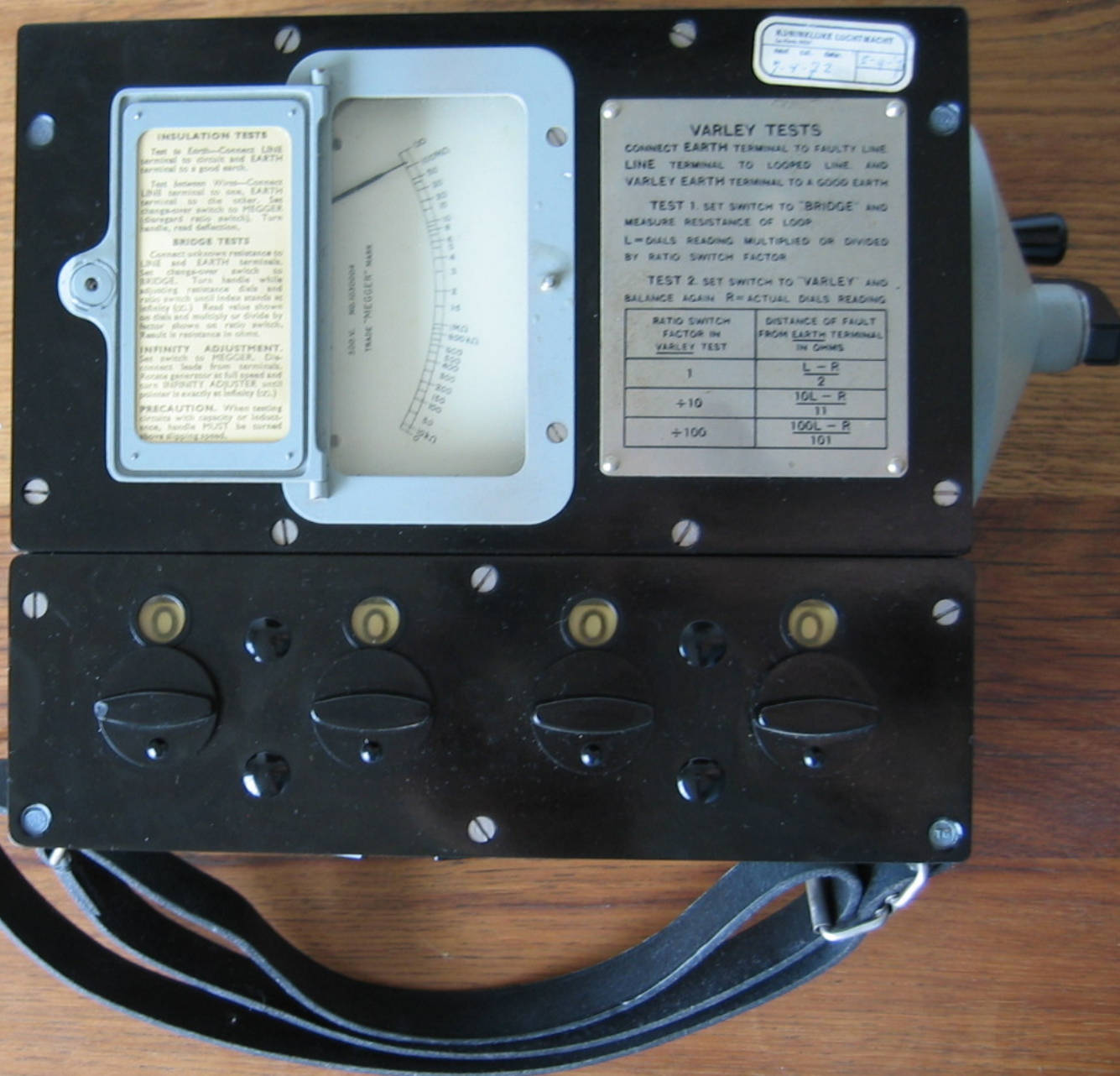
VARLEY TESTS
Connect the leads to the cable
and operate the switches and
dial. The dial shows the
distance of the fault in miles
or feet. The switches are used
for selecting the test and for
balancing the cable.

CAUTION: When using
this tester, always use the
proper method of connecting
the leads to the cable.

VARLEY TESTS
CONNECT EARTH TERMINAL TO GROUND AND
LINE TERMINAL TO LEADED LINE AND
VARLEY EARTH TERMINAL TO GROUND EARTH
TEST 1 SET SWITCH TO BRIDGE AND
MEASURE DISTANCE OF LOOP
L - DIALS READING MULTIPLIED OR DIVIDED
BY SWITCH SWITCH FACTOR
TEST 2 SET SWITCH TO VARLEY AND
BALANCE DOWN R - ACTUAL DIALS READING
RATIO SWITCH FACTOR IN
VARLEY TEST DISTANCE OF FAULT
FROM EARTH TERMINAL
IN OHMS

RATIO SWITCH FACTOR IN VARLEY TEST	DISTANCE OF FAULT FROM EARTH TERMINAL IN OHMS
1	$L - R$
$\div 10$	$\frac{L - R}{10}$
$\div 100$	$\frac{L - R}{100}$





KLEINERLICH ECKHART
No. 7-4-22
7-4-22

INSULATION TESTS

Test to Earth—Connect LINE terminal to circuit and EARTH terminal to a good earth.

Test between Wires—Connect LINE terminal to one, EARTH terminal to the other. Set change-over switch to MEGGER (forward ratio switch). Turn handle, read deflection.

BRIDGE TESTS

Connect unknown resistance to LINE and EARTH terminals. Set change-over switch to BRIDGE. Turn handle while adjusting resistance dial and ratio switch until index stands at infinity (∞). Read value shown on dial and multiply or divide by factor shown on ratio switch. Result is resistance in ohms.

INFINITY ADJUSTMENT. Set switch to MEGGER. Disconnect leads from terminals. Rotate generator at full speed and turn INFINITY ADJUSTER until pointer is exactly at infinity (∞).

PRECAUTION. When testing circuits with capacity or inductance, handle MUST be turned more slipping speed.

500 V. MEGGER
TRADE "MEGGER" MARK

VARLEY TESTS

CONNECT EARTH TERMINAL TO FAULTY LINE
LINE TERMINAL TO LOOPED LINE AND
VARLEY EARTH TERMINAL TO A GOOD EARTH

TEST 1. SET SWITCH TO "BRIDGE" AND
MEASURE RESISTANCE OF LOOP.

L = DIALS READING MULTIPLIED OR DIVIDED
BY RATIO SWITCH FACTOR

TEST 2. SET SWITCH TO "VARLEY" AND
BALANCE AGAIN R = ACTUAL DIALS READING

RATIO SWITCH FACTOR IN VARLEY TEST	DISTANCE OF FAULT FROM EARTH TERMINAL IN OHMS
1	$\frac{L - R}{2}$
+10	$\frac{10L - R}{11}$
+100	$\frac{100L - R}{101}$

INSULATION TESTS

Test to Earth—Connect LINE terminal to circuit and EARTH terminal to a good earth.

Test between Wires—Connect LINE terminal to one, EARTH terminal to the other. Set change-over switch to MEGGER (disregard ratio switch). Turn handle, read deflection.

BRIDGE TESTS

Connect unknown resistance to LINE and EARTH terminals. Set change-over switch to BRIDGE. Turn handle while adjusting resistance dials and ratio switch until index stands at infinity (∞ .) Read value shown on dials and multiply or divide by factor shown on ratio switch. Result is resistance in ohms.

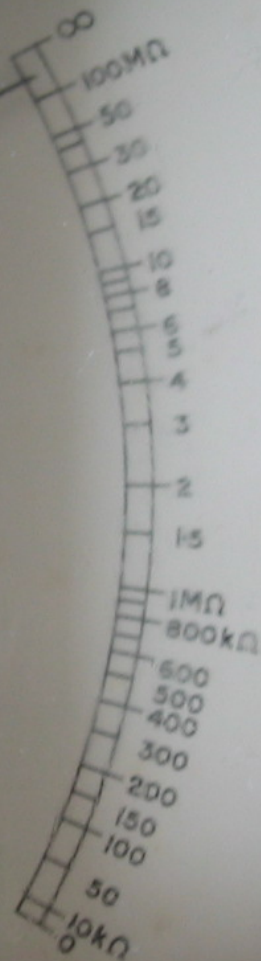
INFINITY ADJUSTMENT.

Set switch to MEGGER. Disconnect leads from terminals. Rotate generator at full speed and turn INFINITY ADJUSTER until pointer is exactly at infinity (∞ .)

PRECAUTION. When testing circuits with capacity or inductance, handle MUST be turned above slipping speed.

500 V. NO. 1030004

TRADE "MEGGER" MARK



CONNECT
LINE TO
VARLEY

TEST
MEASURE
L = DIALS
BY RATIO

TEST
BALANCE

RATIO
FAC
VARL





BRIDGE
MEGGER
TESTER
SERIES 2

CONTAINS 500 VOLT

MEGGER

MADE IN ENGLAND BY
EVERSHED & VIGNOLES LTD
UNITED KINGDOM PATENT NO. 1497
1977 PATENT NO. 1497

MADE IN ENGLAND BY
EVERSHED & VIGNOLES LTD
ACTON LANE, ROYAL, CHESHIRE
LONDON W. 4

VARIABLE TESTS

TEST 1	TEST 2	TEST 3	TEST 4
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

BRUIKBARE	NATO STOCKNUMMER 6685-00-643-2250		BENAMING (Nomenclature) Hoggen.
	PART. NO. AMP 17-2 A		DOCUMENT NR. (Voucher nr.)
	SERIE NR. (Serial nr.) AF-4625	EENH. (Unit of issue) 01	AANTAL (Quantity) 600
	KLu-ONDERDEEL (Base) 0314 210.00 Verbindingen	INSPECTIE DATUM (Inspection date) 21e Stukko.	INSP. STEMPEL (Insp's stamp) 15

Lu. Form. 9655A



AN/PSM-2 A

L **GND**



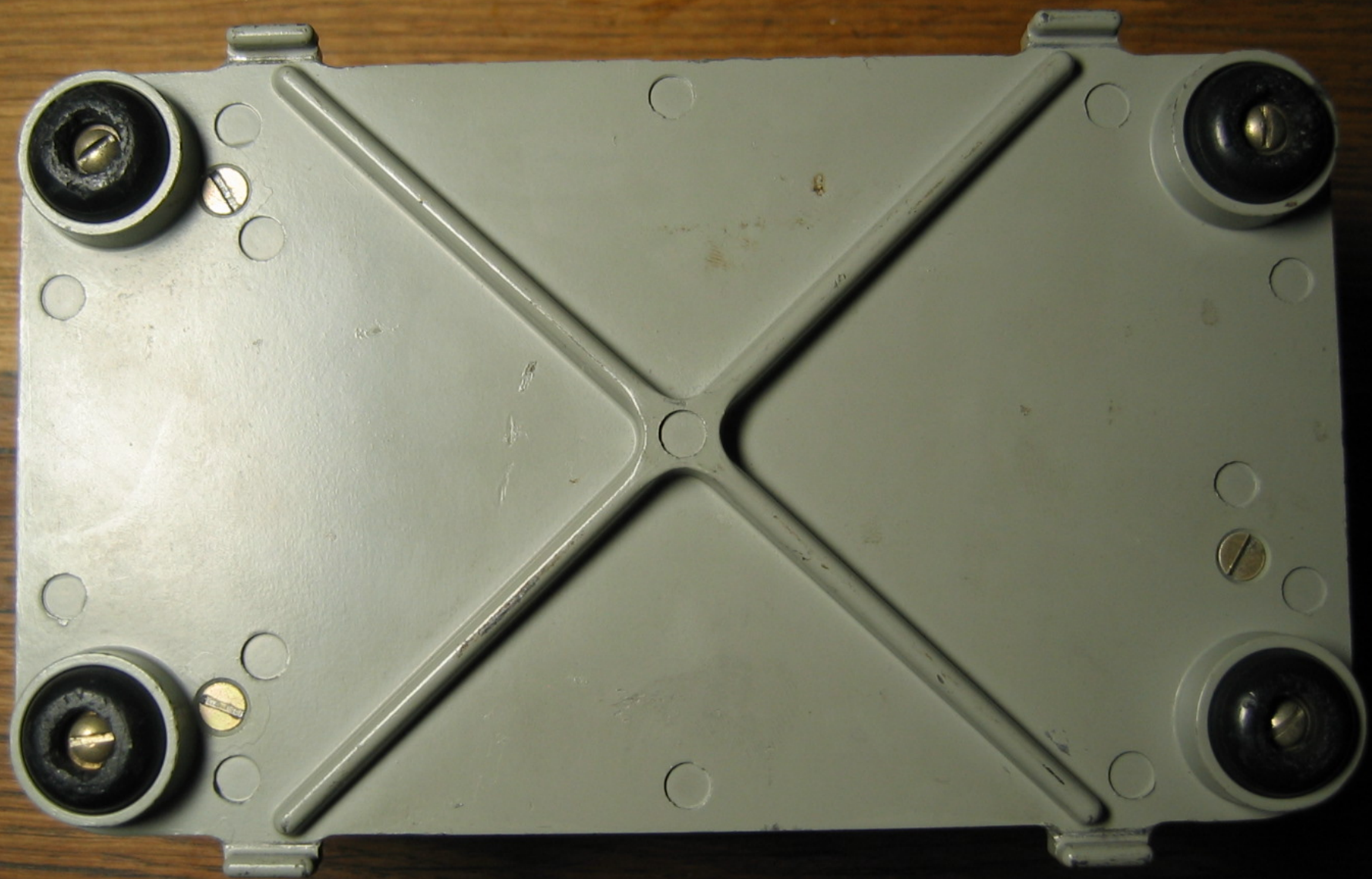
U.S. PROPERTY
OHMMETER ZM-14A/PSM-2
0-1000 MEGOHMS 500 VDC
A.F. STOCK NO. 7CAG-801319-12815
A.F. 4625 CONTRACT NO.
4550 AF33(604)14281
HOLTZER-CABOT
BOSTON, MASS., U.S.A.



U.S. PROPERTY
OHMMETER ZM-14A/PSM-2
0-1000 MEGOHMS 500 VDC
A.F. STOCK NO. 7CNC-801319-12815
A.F. 4625 CONTRACT NO.
4550 AF33(604)14281
HOLTZER-CABOT
BOSTON, MASS., U.S.A.



KONINKLIJKE LUCHTMACHT
Lu. Form. 0021/852339/622100
next cal. date: 31 DEC. 1998
34 2
BLV



NAVSHIPS 91608C

INSTRUCTION BOOK

for

INSULATION TEST SETS

AN/PSM-1A and AN/PSM-2A

HOLTZER-CABOT

DIVISION OF

NATIONAL PNEUMATIC COMPANY, INC.
BOSTON, MASSACHUSETTS

BUREAU OF SHIPS

NAVY DEPARTMENT

ADDENDA #1 NAVSHIPS 91609B & C

Page 5-6 (a) Note pertaining to R-106 is deleted. R-106 now described as: One or a combination of resistors of any value between 0 and 100,000 ohms. Resistors to be fixed composition, plus or minus 10%, 1/2 watt, tinned copper leads.

(b) R-107 is deleted.

Page 5-7 R-108 through R-112 are deleted.

Page 4-9 R-106 notation is changed from: "10,000 to 95,000 ohms" to: "0 to 100,000 ohms". The note "set at assembly" is changed from R-106 through R-112 as required, to: 0 to 100,000 ohms as required.

Page 1-7 Commencing on line 7 the sentence "The resistor R-106 used only in ZM14A/PSM-2 (R-106 through R-112 as required) is a 10,000 ohm to 95,000 ohm fixed composition resistor with tinned copper leads" is changed to read: "The resistor R-106 used only in ZM14A/PSM-2 is a 0 to 100,000 ohm fixed composition resistor with tinned copper leads."

**HOLTZER-CABOT
DIVISION OF
NATIONAL PNEUMATIC COMPANY, INC.
BOSTON, MASSACHUSETTS**

5 November 1956

SECTION 4 MAINTENANCE

MAINTENANCE.

Check the initial adjustment of PSM-1 or ZM-14A/PSM-1 in Section 3, par 2.

The accuracy is required when the ohmmeter has been dropped.

any event.

NCE.

MAINTENANCE PERFORM THE REQUIREMENTS OF THE BUREAU OF THE LATEST ISSUE.

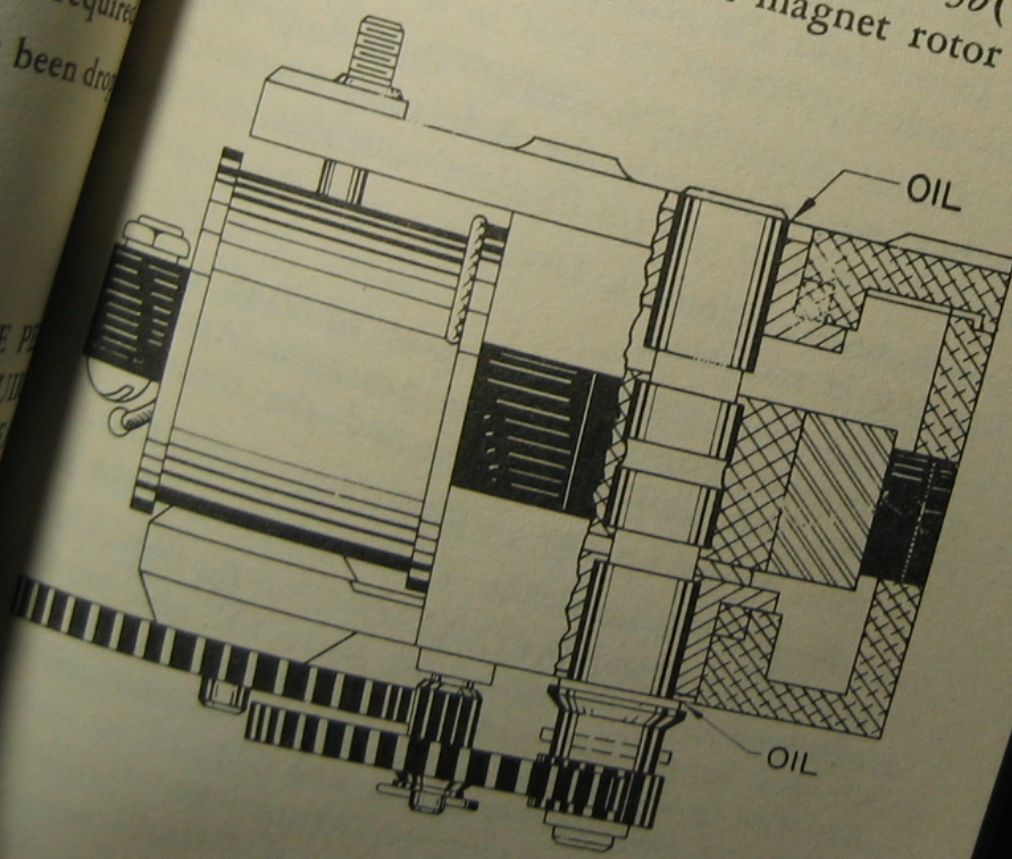
peak performance and electrical characteristics.

adjustment instructions.

MAINTENANCE NAVSHIPS 91608C AN/PSM-1A and AN/PSM-2A Paragraph 2b(1)

(1) Check the output of the ohmmeter in accordance with instructions in paragraph 3b of this section.

c. ANNUALLY.—Remove the generator G-101 in accordance with instructions in paragraph 3b(1) of this section and oil the permanent magnet rotor shaft.



SECTION 4 MAINTENANCE

GENERATOR'S MAINTENANCE.

The generator should check the initial adjustments of the meter ZM-13A/PSM-1 or ZM-14A/PSM-2 in accordance with instructions in Section 3, paragraph 2, of this section.

Whenever extreme accuracy is required.

Whenever the ohmmeter has been dropped.

Once a month in any event.

PERIODIC MAINTENANCE.

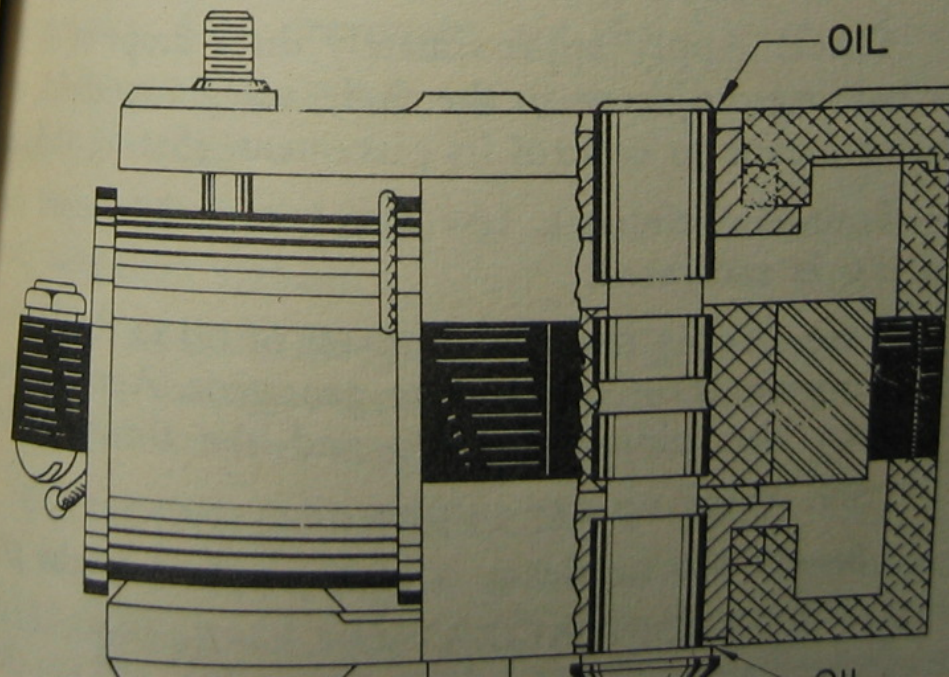
PERIODIC MAINTENANCE PERFORMED BY THE MAINTENANCE PERSONNEL INVITED TO THE REQUIREMENTS OF CHAPTER 67 OF THE BUREAU OF NAVAL AVIATION, OF THE LATEST ISSUE.

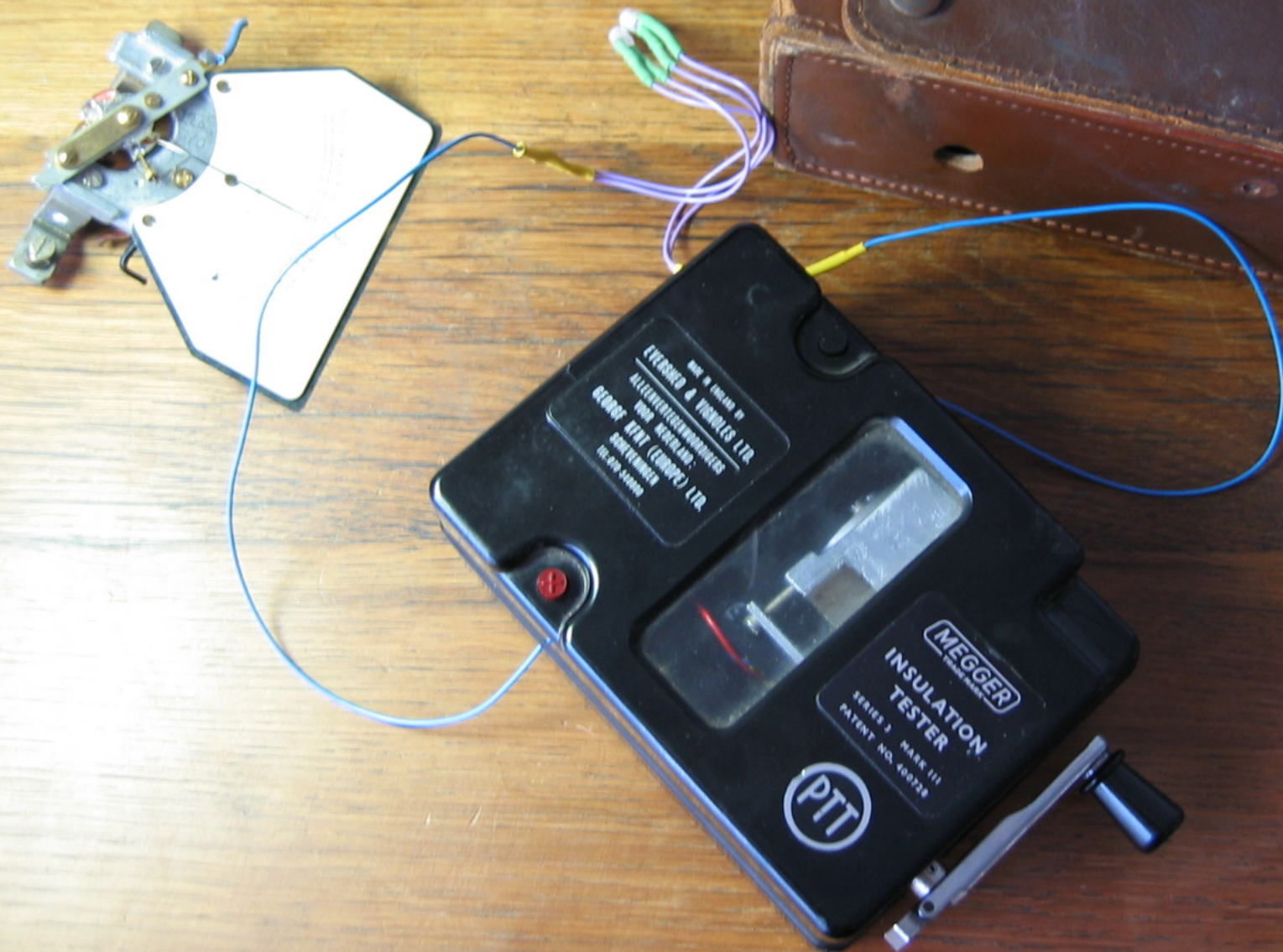
Continuity of service at peak performance.

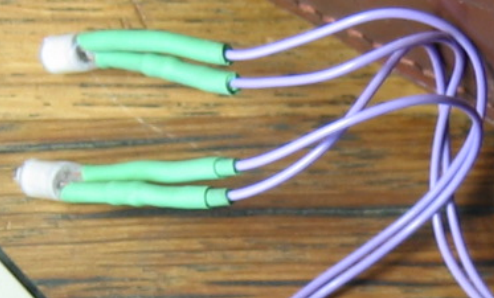
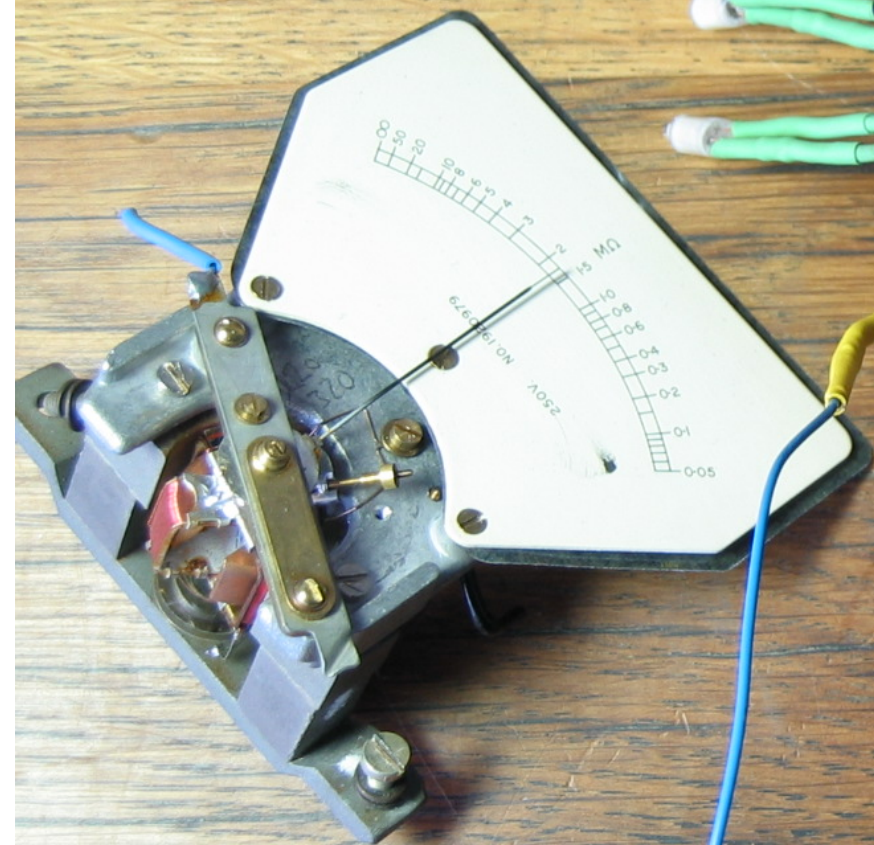
Section 4

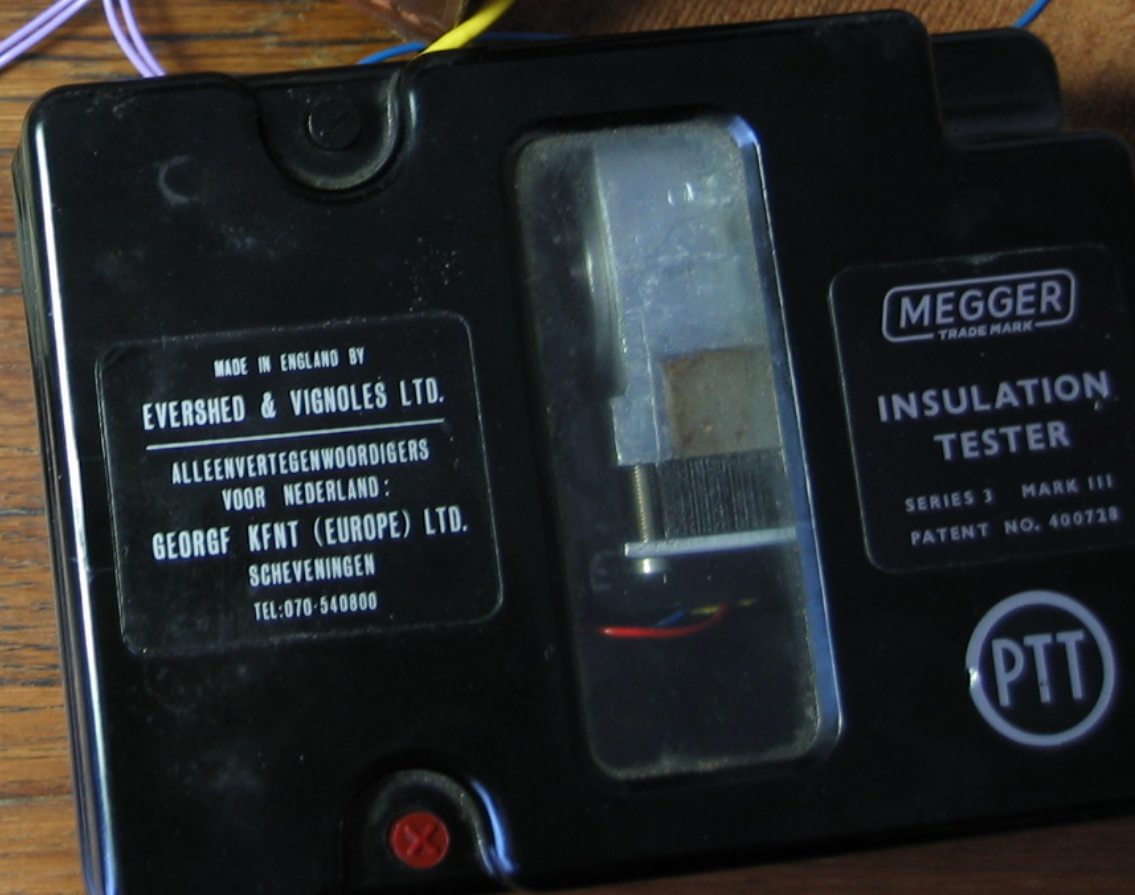
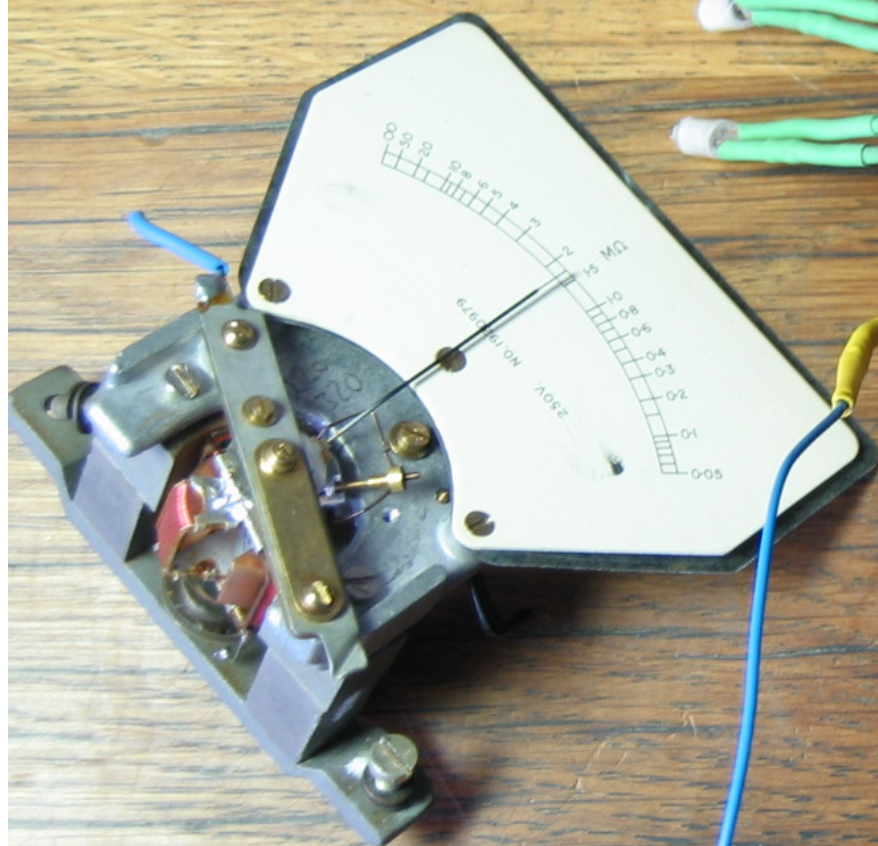
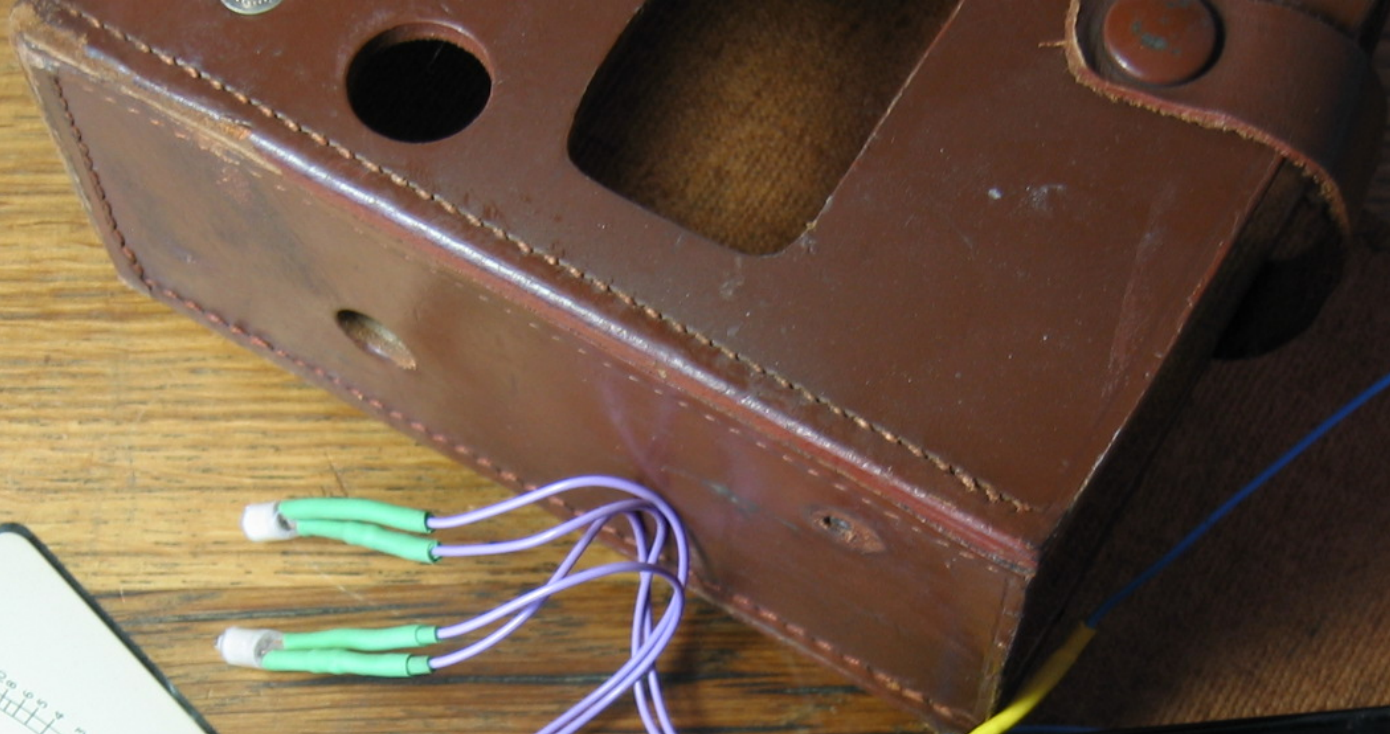
(1) Check the output of the ohmmeter in accordance with instructions in paragraph 3b of this section.

c. ANNUALLY.—Remove the generator G-101 in accordance with instructions in paragraph 3b(1) of this section and oil the permanent magnet rotor shaft



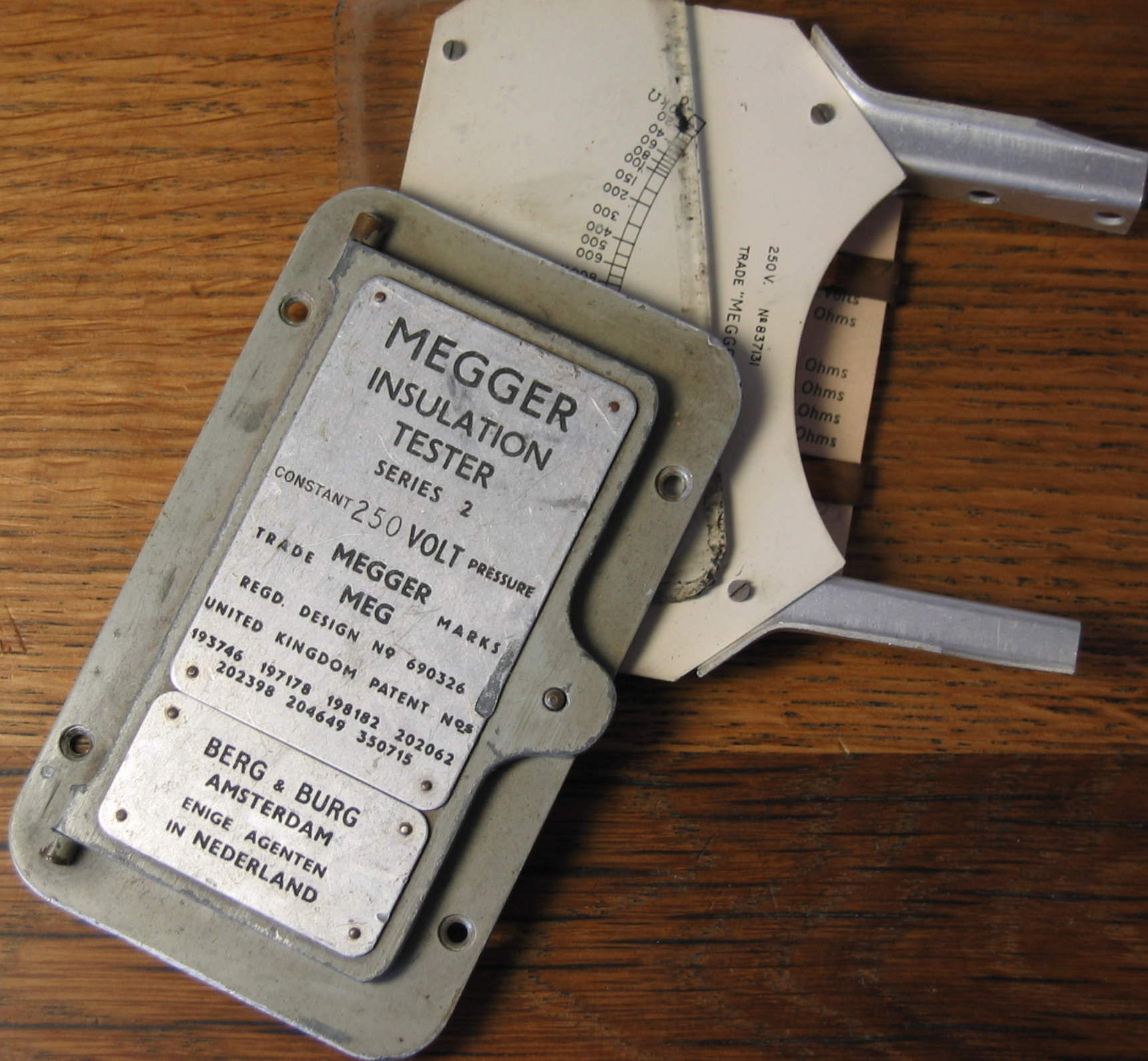












**MEGGER
INSULATION
TESTER**

SERIES 2

CONSTANT 250 VOLT PRESSURE

TRADE MEGGER
MEG

MARKS

REGD. DESIGN NO 690326

UNITED KINGDOM PATENT NOS
195746 197178 198182 202062
202398 204649 350715

**BERG & BURG
AMSTERDAM
ENIGE AGENTEN
IN NEDERLAND**

250 V. No 837131
TRADE MEGGER

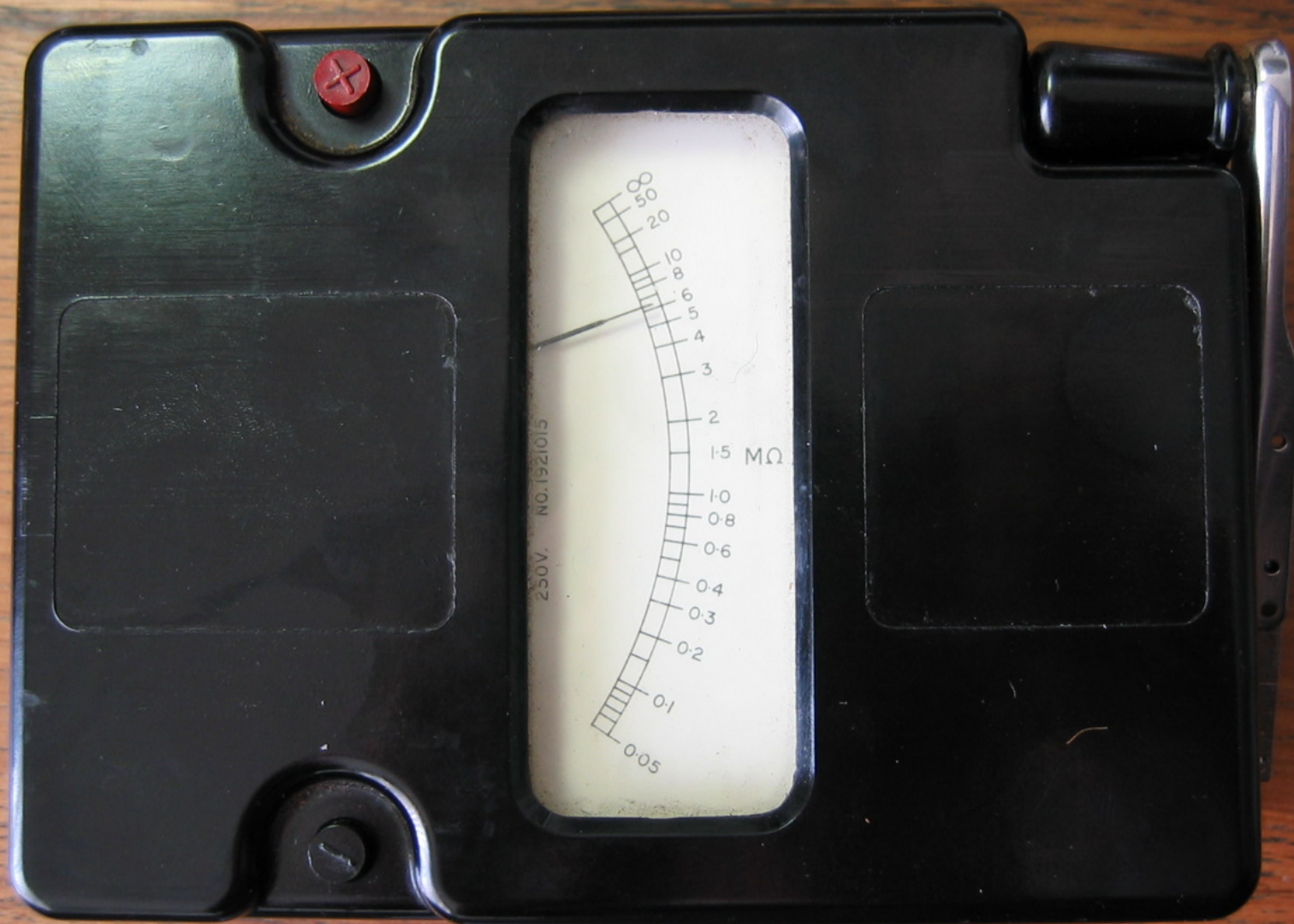
Volts
Ohms

Ohms
Ohms
Ohms
Ohms









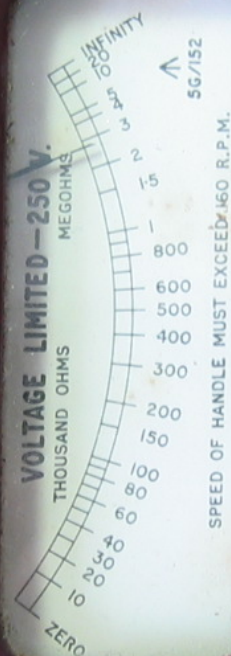






EVERSHED & VIGNOLLES LTD
ACTON LANE WORKS
CHISWICK
LONDON, W.4

LONDON, W.4



REGD. TRADE MARK

MADE IN ENGLAND

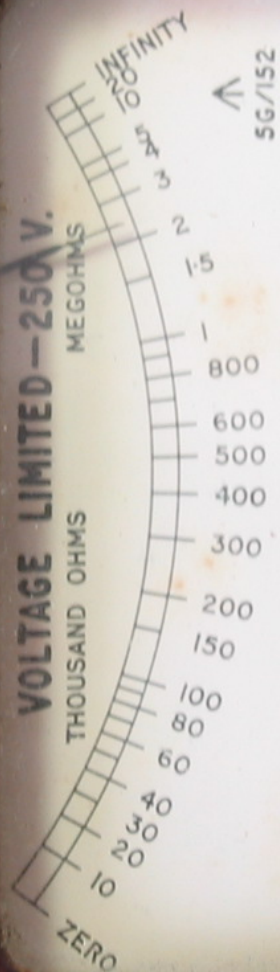
400728

EVERSHED & VIGNOLLS LTD

ACTON LANE WORKS

CHISWICK

LONDON, W.1



250 VOLTS

MEGGER

REGD TRADE MARK

MADE IN ENGLAND

PATENT NO

400728